

## SEQUENCE LISTING

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<120> Detection Methods

<130> PB0262

<140> PCT/US03/30359

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<150> US 60/491,842

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<160> 45

<170> PatentIn version 3.1

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<212> DNA

<213> Homo sapiens

<220>

<221> SNP

<222> (101)..(101)

<223> Alternative allele: G.

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aggcactttc tagaggcatg caggcataga tagccatgtt ctaagagtaa agggcaaccc 120

taagcaaacc tggcatgcta gaaagtcagt ctgcggtctg tggatcacct acatcagatc 180

aaatgccaat tctcagcctc c 201

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<222> (101)..(101)

<223> Alternative allele: T.

<400> 2

tgatagaagc caggcttctc accttgcag aaggaggatca tggattcaga aaggagagaaa 60

actagcatga atcctatgaa attagattgg aatggatgta accgtgtata ttcataccct 120  
 tgtagataga tagatgggta gatagatgat agataggtaa cagatagatg acagataatg 180  
 agatagatag atgtaaatgt a 201

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 <223> Alternative allele: T.

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 ggcaggagaa tcactgaac ctgggaggcg gatgtgaag tgagctgaga ttgcaccact 60  
 gcactccagt ctgggtgaga gtgagactca gtcttaaaaa aatatgcctt ttgaagcac 120  
 gtacatttg taacaaagaa ctgaagctct tattatatta ttagtttga ttaatgtt 180  
 tcagcccatc tccttcata t 201

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 aagtcaccag aaagtcagaa gggatgacat gcagaggccc agcaatctca gctaagtcaa 60  
 ctccaccagc cttctagtt gccactgtg tgtacagcac cctggtaggg accagagcca 120  
 tgacagggaa taagactaga ctatgccctt gaggagctca cctctgttca gggaaacagg 180  
 cgtggaaaca caatggtgt a 201

<210> 5  
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 <222> (101)..(101)  
 <223> Alternative allele: T.

<400> 5

ctgtagtcca atagataaag gcaaagagat tagggcattg aattttgttc cttttatcct 60  
tcaaaagatg cacaaggggc tgctgatctc actgctgtag cgggtgctcct tatgcataga 120  
cctgcccttg ctacgccact ggccctgaaag agggggcaaaa gtcatagaag gaatggcttc 180  
cagttgagaa ccttgatgtc t 201

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<212> DNA  
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<222> (101)..(101)  
<223> Alternative allele: C.

<400> 6  
gaactattgg aactgataaa cacattcagt aaagttgcag gatacaaaat cagcatacaa 60  
aatcagtag catttctata tgccaatagt gaacaatctg gcaaaaataa aaaagtaatc 120  
ccatttacia tagccacaaa taaaactaaa tacctagaaa ttaactaat caaagaagag 180  
aaaggtctct acaatgaata c 201

<210> 7  
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<221> SNP  
<222> (101)..(101)  
<223> Alternative allele: T.

<400> 7  
ataagtcatt cagtatccac aacacttgga gagaattcaa gagtgatttt aaatttcct 60  
tttcaaatac ctctctgtt ttctcttatt tcctttatga cgtctccaaa taagcttct 120  
ctaactgccca gcaagtcctga ttcatctggc ttgcactgtt ttcattccaa ttagaggcag 180  
ggttaagtac attaaaaata a 201

<210> 8  
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<212> DNA  
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<221> SNP  
<222> (104)..(104)  
<223> Alternative allele: T.

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 aactgcccct aggatccaat catctcctac caggccccac ctccagtatt ggggattgca 60  
 tttaacatg agattttggt aggggcacag attcagacca tatcactggc actgtgctaa 120  
 tcagatgaat atcaccagtt ggaaggctag attccacaag aggaggaatg acctggaaat 180  
 tggttcttta gttgtgattc t 201

<210> 9  
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 <212> DNA  
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<220>  
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 <222> (100)..(100)  
 <223> Alternative allele: T.

<400> 9  
 ggggtcccct tgccaacaga atcacagagg accagcctga aagtgcagag acagcagctg 60  
 aggcacagcc aagagctctg gctgtattaa tgacctaaaga agtcaccaga aagtcagaag 120  
 ggatgacatg cagaggccca gcaatctcag ctaagtcaac tccaccagcc ttctagtgtg 180  
 cccactgtgt gtacagcacc c 201

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 <213> Homo sapiens

<220>  
 <221> SNP  
 <222> (101)..(101)  
 <223> Alternative allele: base deleted.

<400> 10  
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 gcctgaggtc aggagttcaa gacaagcctg gcctacatgg ttgaaacccc atctctacta 120  
 aaaatacaca aattagctag gcatggtgga ctgcctgta atctcactac acaggaggct 180  
 gaggcaggag aatcacttga a 201

<210> 11  
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 <222> (101)..(101)

<223> Alternative allele: T.

<400> 11

tgggtgtggg agtccaagca agcagagaag gggtcgacgc agaggggtgg cttgcaagag 60

cagccagagc cttaaaggagg tatggagaac ccacatgagg cgaggagggc atccatgagt 120

gggaggggtt gggtagaggtt tggctacata aaggggattg atcaaataag taaatgtatt 180

aaggatgata gaagccaggc t 201

<210> 12

<211> 201

<212> DNA

<213> Homo sapiens

<220>

<221> SNP

<222> (101)..(101)

<223> Alternative allele: C.

<400> 12

ttgcatttct ctaatgacca gtgatgatga gcatttttc acatgtctgt tggctgcata 60

gatgtctct tttgagaagt gtctgtcat atcctttgcc tattttttga tggggttgtt 120

tgctttttt cttgtaaatt tgttaagtt cttttagat tctggatgtt agcccttcgt 180

cagatggata gattgcaaaa a 201

<210> 13

<211> 201

<212> DNA

<213> Homo sapiens

<220>

<221> SNP

<222> (101)..(101)

<223> Alternative allele: G.

<400> 13

taactattgg ttctagagag caggactggg ctactccag catactgctt taaatatatc 60

catgtctaca tccacttttg tctgtatgct tatgtatcta tctatgtatc tatctagcta 120

tgtatctatc tatctatcta tctatcatct atctatctat ctatcatcta tccatctatc 180

atctatcatt tatccatcta t 201

<210> 14

<211> 201

<212> DNA

<213> Homo sapiens

<220>

<221> SNP  
<222> (101)..(101)  
<223> Alternative allele: G.

<400> 14  
cttcccatct ttacttgga tgggttcaat tgggaggaat tactggactc tggaagtga 60  
agactgtcca tataattaaa atgtacaata actaccagg ttacctgc aagttcaac 120  
atacacaaaa ttaactttat atgactctc aaaaacagtt tgccatcata cctaataatc 180  
tggtttaaat ttataaaact c 201

<210> 15  
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<212> DNA  
<213> Homo sapiens

<220>  
<221> SNP  
<222> (101)..(101)  
<223> Alternative allele: T.

<400> 15  
tgcccagagt gtggcttaa aagctcccc attgctctc atgtgaagcc aaggtgaga 60  
atgactaatt taaggcattt ctggtggata taaaggacta ccacagtcca aggccatcct 120  
gactgacctc acctccagg tgccatgctc catccagctg ggctccttt caacccaatt 180  
ataactctat taatgtgtt c 201

<210> 16  
<211> 201  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SNP  
<222> (101)..(101)  
<223> Alternative allele: A.

<400> 16  
agagtgtggc ttataaagct tccccattgc ttctcatgtg aagccaaggt tgagaatgac 60  
taatttaagg catttctgtt ggaataaag gactaccaca gtccaaggcc atcctgactg 120  
acctcacctt ccagggtgct agtccatcc agctgggctc ctttcaacc caattataac 180  
tctattaatg ttgtccag c 201

<210> 17  
<211> 201  
<212> DNA  
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<220>  
<221> SNP  
<222> (101)..(101)  
<223> Alternative allele: A.

<400> 17  
taatttaagg catttctggt ggaataaaag gactaccaca gtccaaggcc atcctgactg 60  
acctcacctt ccaggtgcct agctccatcc agctgggctc ctttcaacc caattataac 120  
tctattaatg ttgtcccag ccaggcatgg tggctcatgc ctgtaatccc agcactttgg 180  
gaggccgaag caggcggatc a 201

<210> 18  
<211> 201  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SNP  
<222> (101)..(101)  
<223> Alternative allele: A.

<400> 18  
ctaatttgat tgcactgtgg tctgagagac agtttgttat gatttctgtt cttttacatt 60  
tgctgaggag tgctttactt ccaattatgt ggtcaatttt ggaataagtg cgatgtggtg 120  
ctgagaagaa tgtatattct gttgatttgg ggtggagagt tctgtagatg tctattaggt 180  
ccgcttggtg cagagctgag t 201

<210> 19  
<211> 200  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SNP  
<222> (100)..(100)  
<223> Alternative allele: C.

<400> 19  
ggacagggcat agtttagaga gtttatccca tccagagttg ccttctgtgg tcagaaactg 60  
atgagcaaaa agaagcccag agggcacctt gtcagcgaaa agaaccctca tgctgctgca 120  
ttctaattaa ggggtcttct ttctccttg atctactgta ttctgaagg aattgggagt 180  
aggaggcctt agggctctgc 200

<210> 20  
<211> 201

<212> DNA  
<213> Homo sapiens

<220>  
<221> SNP  
<222> (101)..(101)  
<223> Alternative allele: G.

<400> 20  
tggccttct gctgcacaat cctcagggtg gcttccccct cattgatcct agaccccagc 60  
cagcccaatc tctgggctcc agagaaaggg agagccaatt ctctcaggct ttctgtgcag 120  
gaagactagg cctgccctgc tccttaccca agcagtagtt ggctttgacc ccagagtaga 180  
gctgccccat ctctggaag c 201

<210> 21  
<211> 201  
<212> DNA  
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<220>  
<221> SNP  
<222> (101)..(101)  
<223> Alternative allele: A.

<400> 21  
cagcacttag cctagcacc agcacagtaa gtgcccccta tacagccagg attcatgtta 60  
ctttcatgg aaaatggggg cagtactac tgcctccat gaaagctgct ggggagaatt 120  
agcctagcta ttgcaggctg ggattgctgc ttctctggg ctattccag ctactcaggc 180  
tcacaggggc agtttctac a 201

<210> 22  
<211> 201  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SNP  
<222> (101)..(101)  
<223> Alternative allele: T.

<400> 22  
attgggagta ggaggccta gggctgtcc taccaagtcc ttgcagtcatt ggtggagtgc 60  
agtggggctg tgccacatg ggagtcagca tgccaggtag ctgccttctc ctccaggaag 120  
gaaagcaggg accagagggt taagggcaag agtgggggtg atggtgtgag attcctacag 180  
ccttgctgc tctctaaagg c 201



<210> 23  
<211> 201  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SNP  
<222> (101)..(101)  
<223> Alternative allele: G.

<400> 23  
gccactgtgc cctgccagcc tctcagcttt gatcaagcca aggggttggt tatttttct 60  
tggaccaatc agccaggtct gctgaccaac tacctagctc ccacctctgc tggcttctc 120  
ccggggggcag agaagatgga gaaggctagt catgtggatc ttcagggtca ggaaatggaa 180  
aaggaggct ttggaccctt t 201

<210> 24  
<211> 201  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SNP  
<222> (101)..(101)  
<223> Alternative allele: A.

<400> 24  
atggagaagg ctagtcatgt ggatcttcag ggtcaggaaa tggaaaaggg aggctttgga 60  
cccttttctt ttggggggcca cctctaggag gaggcagctc ggccaagtc cagactgggt 120  
agacaaaaca tctgcactct ccaaatgtgg gcttgtggct gggtatgcag gcttgcaatg 180  
gaagggtaaa cctgagttag g 201

<210> 25  
<211> 201  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SNP  
<222> (101)..(101)  
<223> Alternative allele: T.

<400> 25  
ctgacattgt ccccaatctt ccttcctttt tacttcctg ctccagccgc aatgacccat 60  
cttttcctg attacctccg ccacctctac ctctctgcc acttaaaacc ttgccattt 120  
ctctgcagag atagatttag cctttaatt atgcacctta gtactccaga taatgacctt 180  
catttctttt ccaattacca t 201

<210> 26  
<211> 201  
<212> DNA  
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<220>  
<221> SNP  
<222> (100)..(100)  
<223> Alternative allele: G.

<400> 26  
atttttaggg aacaagggaa aacaaccata aggtctgact gcctgcaggg tcgggcagaa 60  
  
agagccatat ttctcttct gagagaggct ataatggac atgcaagtag ggaagatgc 120  
  
actaaattct ttcttagca aggagtatta ttattaatac cctgggaaag gaatgcattc 180  
  
ctggggggag gtctataaac a 201

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<220>  
<221> SNP  
<222> (101)..(101)  
<223> Alternative allele: T.

<400> 27  
tagggtaggg aaaaactccg ccctggtaaa ttgtggta gaccggttct ctgctgtcga 60  
  
accctgtttg ctgtgttta aggtgttat caagacagta cgtgcaccgc tgaacataga 120  
  
ccctcatctg tagttctgct ttgcccttt gccttgtgat cttgttgga ccctatcag 180  
  
tggtctgct ttgcccttt g 201

<210> 28  
<211> 201  
<212> DNA  
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<220>  
<221> SNP  
<222> (101)..(101)  
<223> Alternative allele: A.

<400> 28  
tacagccagg attcatgtta ctttcatgg aaaatggggg cagtactac tgtcctccat 60  
  
aaaagctgct ggggagaatt agcctagcta ttgcaggctg ggattgctgc ttctctgtg 120  
  
ctattccag ctactcaggc tcacaggggc agtttctac aatgacattt cagggttgc 180  
Page 10

gatgagcctc ccactcagca g

201

<210> 29

<211> 201

<212> DNA

<213> Homo sapiens

<220>

<221> SNP

<222> (101)..(101)

<223> Alternative allele: A.

<400> 29

ctggaggatt ttaagtatgt aagtggaaca atctgtttt ttgttttga 60

gaaggagttt cgctcttgtt gccctggctg gaggcaatg gcatgatctt ggctcactgc 120

aacccctgcc tctgagttc aagtattct cctgcctcag cctccaaaat agctgggatt 180

gcaggcgtgt gccacatgc c

201

<210> 30

<211> 150

<212> DNA

<213> Homo sapiens

<220>

<221> SNP

<222> (50)..(50)

<223> Alternative allele: C.

<400> 30

tcttggaag gggcacccc agcatgagtg ctgagatag gactctctaa ggaaggggcc 60

gaacgcttgt aattggaata catggaaata ttgtcttct caggcctatg ttgcggaat 120

gcattgtcaa tatttagcaa actgtttga

150

<210> 31

<211> 151

<212> DNA

<213> Homo sapiens

<220>

<221> SNP

<222> (51)..(51)

<223> Alternative allele: G.

<400> 31

cgagaacagt ttacaatag acattgcaaa ctctcatgtt ttggaaact agtggcaata 60

tccaaataat gagtagtgta aaacaaagag aattaatgat gaggttacat gctgcttgcc 120

tccaccagat gtccacaaca atatgaagta c

151

<210> 32  
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<222> (101)..(101)  
<223> Alternative allele: A.

<400> 32  
gtctgcgtgt atgacggcta gacaggagtt cagagaacag cggggtcgcc aggccaccac 60  
ctgatgggcc acggctcatt ggctctagga gctgggaaag ggcatcccag gaaagaagcc 120  
ctagacttta gcctgagtct gggccactct aggggaccgg gagtgggggtg gcgggagagg 180  
acgcgcagaa tctcgacttc t 201

<210> 33  
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<222> (101)..(107)  
<223> Alternative allele: eight A's instead of seven after base 100.

<400> 33  
agctaattgt tataatagtg gagaaaagat catgaggaca aaaagtgggc agagtcggaa 60  
gaaaagagag gaagaaattg agacagaaga catttcattt aaaaaaatat tccattgagc 120  
tgggtttgaa atagtgcact gcctgttctc ctaatgctgt atggtgtcat gaaatctatt 180  
gtttactgag tctatgagcc 200

<210> 34  
<211> 201  
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<220>  
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<222> (101)..(101)  
<223> Alternative allele: C.

<400> 34  
aactctgaag ccacaaagac ccagagcaaa cccactccca aatgaaaacc ccagtcatgg 60  
cttcctttt ctgggttaat taggaaagat gagaaattat taggtagacc ttgaatacag 120  
gagccctctc ctcatagtc tgaaaagata ctgatgcatt gacctcattt caaatttggtg 180  
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cagtgtctta gttgatgagt g

201

<210> 35  
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<220>  
<221> SNP  
<222> (101)..(101)  
<223> Alternative allele: T.

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<309> 2003-03-07

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aaagaaacat tgtttcttaa aacaatgttt taagaaagtg tacgaatttg tgcaggcca 60  
catccaaaac tgtcctgggc tgcatgtggc ccacaggctg cgggttggac aagcctggcc 120  
tagaaggctt tgcccccatg tattcatggg ggttgggtcc tcaatttatt tagttcccta 180  
ccaatttgca cctcctcaaa gggactttcc c 211

<210> 36  
<211> 213  
<212> DNA  
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<220>  
<221> SNP  
<222> (123)..(123)  
<223> Alternative allele: T.

<300>  
<308> NCBI SNP CLUSTER ID: rs545303  
<309> 2003-03-07

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gggaactcac agtttttgg ctgtctcata gagtttgcaa cagtaaaact gcttcttca 60  
aagggctctg gaattcttc agtttctg gtatgtccc atggtagttc ttgcagcaaa 120  
agctcacagt gtgagttcc acacactgt ctgtccattc caagcaggag ctgcatgtta 180  
gttctgtctg ctatccacca tttccaatt ttg 213

<210> 37  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 37  
tggccttgta cgctgcgaag

20

<210> 38  
<211> 21  
<212> DNA  
<213> Homo sapiens

<400> 38  
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<210> 39  
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<213> Homo sapiens

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<222> (37334)..(37334)  
<223> Unknown base.

<300>  
<308> <http://www.genome.utah.edu/genesnps/>  
<309> 2002-06-05  
<313> (1)..(37073)

<400> 39  
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ccaggagcct ggctgggcac ggtggctcct gcctgtaatc ccagcacttt gggaggccga 120  
ggcaggcaga tcacctgagc tcaggagttc aagaccagcc tgggcaacat ggcaaaaccc 180  
catctctact aaaaatacaa aaaattagct gggcgtggtg gtgcatgcct ctaatcccag 240  
ctacttggga ggctgaggca caagaattgc ttgagcccag gaggcagcag ttgcagttag 300  
ctgagattgt gccagtgcac tccagcctgg gcaacagagc aagattccat ttcaaaaaca 360  
aaaacaaaca caaacaaaca acaaaaaata gaaagcccag ggaccacctg cgtcagggtc 420  
ccagccacac cttttcttg tctctctctg tctctggcat cttctcacag gttcctaatt 480  
gtttgtggtt gcacaaattc aaaatcccag aaaaattacc acttcacacc cactcagatg 540  
gctatTTTT tttgaagga agataacaag tgttgacaag aacatggaga aattggaatt 600  
ctcaccatt gctggtgaga atgtaatacg gtgctgctgc tatggaaaac agcttgagat 660  
ttctcaaaa agttcaacag aattcaatg tgaccagca attcccctct aagttataga 720  
tctgagagga taaaaacag ttactaaat acacggactc acataittct aacagtcaa 780  
ttcacaaggg ccaaagggtg ctaatagccc acatgtccat cgatggatgg ataaataaat 840  
tgtgtctat ccataaatg gaatattatt cggccataaa tggaatgaag tactgacgca 900  
tgctacagaa tggatgaacc gcaaaaaaaaa tggatgaaca catgctacag aatggatagc 960  
ctcactttac tatgaagtga aggccagaaa cgaagtccat atattgcatc atacaaaata 1020

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 gaggggagag tggggagaaa ctgctcaact ggtacaggct ttattttgga atgatgggaa 1140  
 cattttgcaa ctagatagag gtatgtattg cagaacacag aatgtactga attccactga 1200  
 ttttttcac cttaaaatgg ttaatttica gtctgagat tggataatca taaaaaaatg 1260  
 gttaatttta tgtatgtga attcatccc tatacatatt ttaaacctca gaaatataca 1320  
 ctagcaggca tggaacaggt cactgtggg cctgccaagc ccggtgatgt tatctggggt 1380  
 ccccgccag ccttaagcct ctgtcgacc ggtggagggc agaacccttg ccctaaaagt 1440  
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